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### 1 [Analyzing the economic efficiency of eBay-like online reputation reporting mechanisms](#)



Chrysanthos Dellarocas

October 2001 EC '01: Proceedings of the 3rd ACM conference on Electronic Commerce

Publisher: ACM

Full text available: pdf(253.91 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 98, Citation Count: 15

This paper introduces a model for analyzing marketplaces, such as eBay, which rely on binary reputation mechanisms for quality signaling and quality control. In our model sellers keep their quality private and choose what quality to advertise. ...

Keyw ords: electronic commerce, reputation systems, trust in electronic markets

### 2 [Customized Internet news services based on customer profiles](#)



Hung-Jen Lai, Ting-Peng Liang, Y. C. Ku

September 2003 ICEC '03: Proceedings of the 5th international conference on Electronic commerce

Publisher: ACM

Full text available: pdf(94.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 77, Citation Count: 0

The widespread adoption of the Internet and information technologies has changed the nature of many industries through easy collection, analysis, and sharing of information. This transformation information processing makes rapid response and product ...

Keyw ords: electronic commerce, news recommendation, product customization

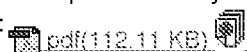
### 3 [Applying Collaborative Filtering for Efficient Document Search](#)

Seikyung Jung, Juntae Kim, Jonathan L. Herlocker

September 2004 WI '04: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:


 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 34, Citation Count: 1

This paper presents the SERF (System for Electronic Recommendation Filtering) which is a collaborative filtering system that recommends context-sensitive, high-quality information sources.

for document search. Collaborative filtering systems remove the ...

#### 4 [Toward trustworthy recommender systems: An analysis of attack models and algorithm robustness](#)



Bamshad Mobasher, Robin Burke, Runa Bhaumik, Chad Williams

October 2007 ACM Transactions on Internet Technology (TOIT), Volume 7 Issue 4

Publisher: ACM

Full text available: pdf(656.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 70, Downloads (12 Months): 486, Citation Count: 0

Publicly accessible adaptive systems such as collaborative recommender systems present a security problem. Attackers, who cannot be readily distinguished from ordinary users, may inject biased profiles in an attempt to force a system to “adapt” ...

Keywords: Profile injection attacks, attack detection, collaborative filtering, recommender system shilling

#### 5 [Incorporating contextual information in recommender systems using a multidimensional approach](#)



Gediminas Adomavicius, Ramesh Sankaranarayanan, Shahana Sen, Alexander Tuzhilin

January 2005 ACM Transactions on Information Systems (TOIS), Volume 23 Issue 1

Publisher: ACM

Full text available: pdf(423.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 533, Citation Count: 10

The article presents a multidimensional (MD) approach to recommender systems that can provide recommendations based on additional contextual information besides the typical information on users and items used in most of the current recommender systems. ...

Keywords: Recommender systems, collaborative filtering, context-aware recommender system multidimensional data models, multidimensional recommender systems, personalization, rating estimation

#### 6 [Ontological user profiling in recommender systems](#)



Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure

January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1

Publisher: ACM

Full text available: pdf(358.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)



Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 630, Citation Count: 13



We explore a novel ontological approach to user profiling within recommender systems, working around the problem of recommending on-line academic research papers. Our two experimental systems Quickstep and Foxtrot, create user profiles from unobtrusively ...



Keywords: Agent, machine learning, ontology, personalization, recommender systems, user modelling, user profiling



#### 7 [Capturing interest through inference and visualization: ontological user profiling in recommender systems](#)

Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure

-  **October 2003 K-CAP '03: Proceedings of the 2nd international conference on Knowledge capture**  
 Publisher: ACM  
 Full text available:  pdf(362.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)  
 Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 162, Citation Count: 2  
 Tools for filtering the World Wide Web exist, but they are hampered by the difficulty of capturing preferences in such a diverse and dynamic environment. Recommender systems help where exp search queries are not available or are difficult to ...  
 Keyw ords: knowledge capture, machine learning, ontology, profile visualization, recommender systems, user modelling, user profiling

- 8 [Is seeing believing?: how recommender system interfaces affect users' opinions](#)  
 Dan Cosley, Shyong K. Lam, Istvan Albert, Joseph A. Konstan, John Riedl  
 April 2003 CHI '03: Proceedings of the SIGCHI conference on Human factors in computing system  
 Publisher: ACM  
 Full text available:  pdf(295.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)  
 Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 214, Citation Count: 10  
 Recommender systems use people's opinions about items in an information domain to help peop choose other items. These systems have succeeded in domains as diverse as movies, news artic Web pages, and wines. The psychological literature on conformity ...  
 Keyw ords: collaborative filtering, conformity, e-commerce, persuasive computing, recommend systems

- 9 [Adaptive web search based on user profile constructed without any effort from users](#)  
 Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa  
 May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web  
 Publisher: ACM  
 Full text available:  pdf(311.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)  
[review](#)  
 Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 558, Citation Count: 27  
 Web search engines help users find useful information on the World Wide Web (WWW). Howeve when the same query is submitted by different users, typical search engines return the same re regardless of who submitted the query. Generally, each user ...  
 Keyw ords: WWW, information retrieval, user modeling

- 10 [Evaluating collaborative filtering recommender systems](#)  
 Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl  
 January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1  
 Publisher: ACM  
 Full text available:  pdf(253.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)  
 Bibliometrics: Downloads (6 Weeks): 339, Downloads (12 Months): 1911, Citation Count: 37  
 Recommender systems have been evaluated in many, often incomparable, ways. In this article, review the key decisions in evaluating collaborative filtering recommender systems: the user tas being evaluated, the types of analysis and datasets being ...  
 Keyw ords: Collaborative filtering, evaluation, metrics, recommender systems

11 Robustness of collaborative recommendation based on association rule mining

J. J. Sandvig, Bamshad Mobasher, Robin Burke

October 2007 RecSys '07: Proceedings of the 2007 ACM conference on Recommender systems

Publisher: ACM

Full text available: pdf(610.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 250, Citation Count: 0

Standard memory-based collaborative filtering algorithms, such as  $k$ -nearest neighbor, are quite vulnerable to profile injection attacks. Previous work has shown that some model-based techniques are more robust than  $k$ -nn. Model abstraction ...

Key words: association rule mining, collaborative filtering, data mining, recommender systems, security

12 Quantitative Agent Service Matching

Xiaocheng Luan, Yun Peng, Timothy Finin

September 2004 WI '04: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:



pdf(150.42 KB)

[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 0

The ultimate goal of service matching is to find the service provider(s) that would perform tasks given description with the best overall degree of satisfaction. However, service description matching solves only part of the problem. Agents that match ...

13 An approach for combining content-based and collaborative filters

Qing Li, Byeong Man Kim

July 2003 Proceedings of the sixth international workshop on Information retrieval with Asian languages - Volume 11, Volume 11

Publisher: Association for Computational Linguistics

Full text available: pdf(128.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 124, Citation Count: 0

In this work, we apply a clustering technique to integrate the contents of items into the item-based collaborative filtering framework. The group rating information that is obtained from the clustering result provides a way to introduce content information ...

14 Content-based music filtering system with editable user profile

Yoshinori Hijikata, Kazuhiro Iwahama, Shogo Nishida

April 2006 SAC '06: Proceedings of the 2006 ACM symposium on Applied computing

Publisher: ACM

Full text available: pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 235, Citation Count: 1

Information filtering systems, which recommend appropriate information to users from enormous amount of information, are becoming popular. One method of information filtering is content-based filtering that compares a user profile with a content model. ...

Keyw ords: content-based filtering, customization, decision tree, music recommendation, user p

### 15 Recommendations in taste related domains: collaborative filtering vs. social filtering



Georg Groh, Christian Ehmig

November 2007 GROUP '07: Proceedings of the 2007 international ACM conference on Conference  
supporting group work

Publisher: ACM

Full text available: pdf(386.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 199, Citation Count: 0

We investigate how social networks can be used in recommendation generation in taste related domains. Social Filtering (using social networks for neighborhood generation) is compared to Collaborative Filtering with respect to prediction accuracy in the ...

Keyw ords: collaborative filtering, social filtering, social networks, taste related domains

### 16 Taxonomy-driven computation of product recommendations



Cai-Nicolas Ziegler, Georg Lausen, Lars Schmidt-Thieme

November 2004 CI KM '04: Proceedings of the thirteenth ACM international conference on Informati  
and knowledge management

Publisher: ACM

Full text available: pdf(269.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 136, Citation Count: 6

Recommender systems have been subject to an enormous rise in popularity and research interest over the last ten years. At the same time, very large taxonomies for product classification are becoming increasingly prominent among e-commerce systems for ...

Keyw ords: machine learning, recommender systems, taxonomies

### 17 Generating semantically enriched user profiles for Web personalization



Sarabjot Singh Anand, Patricia Kearney, Mary Shapcott

October 2007 ACM Transactions on Internet Technology (TOIT), Volume 7 Issue 4

Publisher: ACM

Full text available: pdf(386.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 549, Citation Count: 0

Traditional collaborative filtering generates recommendations for the active user based solely on ratings of items by other users. However, most businesses today have item ontologies that provide a useful source of content descriptors that can be used ...

Keyw ords: Collaborative filtering, evaluation, implicit ratings, personalization, similarity metric

### 18 Collaborative recommendation: A robustness analysis



Michael O'Mahony, Neil Hurley, Nicholas Kushmerick, Gu  nol   Silvestre

November 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 4

Publisher: ACM

Full text available: pdf(452.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 173, Citation Count: 14

Collaborative recommendation has emerged as an effective technique for personalized information access. However, there has been relatively little theoretical analysis of the conditions under which this technique is effective. To explore this issue, we ...

**Keywords:** Collaborative recommendation, machine learning, robustness

19 [C^2: A Collaborative Recommendation System Based on Modal Symbolic User Profile](#)

Byron Leite Dantas Bezerra, Francisco de Assis T. Carvalho, Valmir Macario Filho

December 2006 WII '06: Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence


Publisher: IEEE Computer Society

Full text available:  pdf(134.91 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 104, Citation Count: 0

Recommendation Systems have become an important tool to cope with the information overload problem by acquiring information about the user behavior. However, the process of getting user personal data may vary in many different ways, and can be done implicitly ...

20 [Socialtrust: tamper-resilient trust establishment in online communities](#)

 James Caverlee, Ling Liu, Steve Webb

June 2008 JCDL '08: Proceedings of the 8th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available:  pdf(2.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 17, Citation Count: 0

Web 2.0 promises rich opportunities for information sharing, electronic commerce, and new modes of social interaction, all centered around the "social Web" of user-contributed content, social annotations, and person-to-person social connections. But ...





**Keywords:** deception, myspace, social networks, spam, trust, web 2.0

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